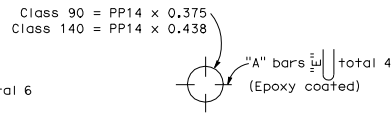
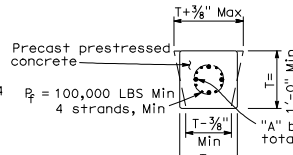


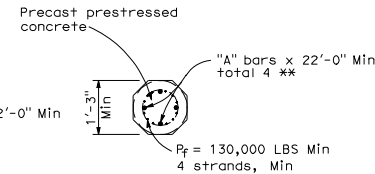
SECTION V-V



SECTION W-W

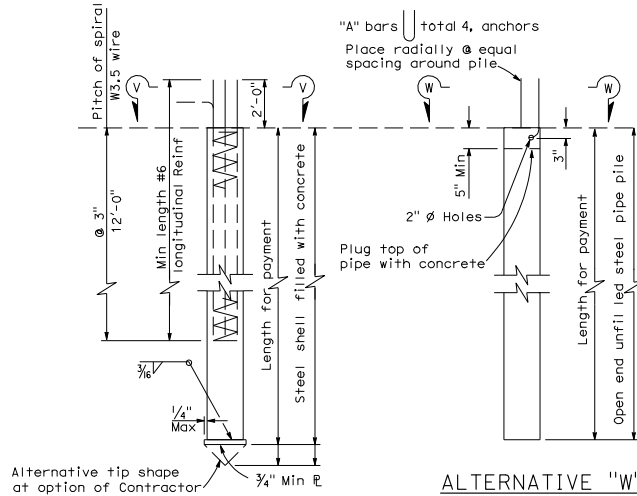


SECTION X-X

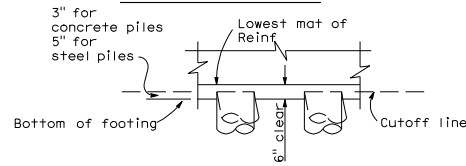


SECTION Y-Y

** To be in place when pile is cast



ALTERNATIVE "V"



PILE EMBEDMENT

	Nominal Resistance (Tension) *	
	Not Required	Required
"A" bars	#6	#8
"E" Dimension	2'-0"	2'-10"

* See Pile Data Table in the Project Plans for Nominal Resistance (Tension) Requirements

ALTERNATIVE "X"

*** W11.0 at 2' may be substituted

ALTERNATIVE "Y"

ALTERNATIVE PILE ANCHOR FOR PRESTRESSED PILES

DESIGN NOTES

PRECAST PRESTRESSED PILES

P_f = Prestressing force (after losses) If section used is larger than the minimum section shown, then " P_f " shall provide 700 psi minimum.

Concrete Strength: f'_c @ 28 days = 6,000 psi (Alternative "X")
5,000 psi (Alternative "Y")
 f'_{ci} @ transfer = 4,000 psi

REINFORCED CONCRETE

f'_c = 4,000 psi
 f_y = 60,000 psi

STEEL PIPE PILE

F_y (Minimum yield strength) = 45,000 psi
 F_u (Minimum tensile strength) = 66,000 psi

DESIGN CAPACITY

Class 90

Compression = 90 kip (Service state)
= 180 kip (Nominal axial strength)
Tension = 36 kip (Service state)
= 90 kip (Nominal axial strength)

Class 140

Compression = 140 kip (Service state)
= 280 kip (Nominal axial strength)
Tension = 56 kip (Service state)
= 140 kip (Nominal axial strength)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PILE DETAILS CLASS 90 AND CLASS 140

NO SCALE

B2-5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
<p>David T. Adams REGISTERED CIVIL ENGINEER</p> <p>May 1, 2006 PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> <p>To get to the Caltrans web site, go to https://www.dot.ca.gov</p>					
<p>REGISTERED PROFESSIONAL ENGINEER Daniel T. Adams No. C46476 Exp. 06-30-07 CIVIL STATE OF CALIFORNIA</p>					

